



TBG 45 PN 50Hz

Code: 17220010

Series: TBG PN

Technical and functional features

- Low NOx and CO gas-fired burners, EN676 "Classe III".
- Two-stage progressive/modulating operation.
- Ability to operate with output modulation by means of automatic RWF40 regulator mounted on the control panel (to be ordered separately with the modulation kit).
- Compatible with any type of combustion chamber, according to EN303 standard..
- Burnt gas recycling blast-pipe able to achieve very low pollutant emissions, particularly with regard to nitrous oxides (NOx).
- High blowing efficiency, low electrical input, low noise.
- Air-gas mixing at blast-pipe.
- Maintenance facilitated by the fact that the mixing unit can be removed without having to remove the burner from the boiler.
- Fan speed adjustment in relation to changes in burner demand provided by means of inverter, to obtain a significant reduction in noise levels and electricity consumption (version V only).
- Gas regulation by means of a proportional working valve that is pneumatically driven.
- Ability to add a valves seal control device to the train.

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- Regulation of air flow rate for first and second stage with damper closure on standby to prevent in-flue heat dispersion.
- Air capacity adjustment with linear opening controlled by electric servomotor.
- Modulation ratio 1:4.
- Comes with 4 and 7-poles connectors, 1 flange and 1 insulating seal to connect the burner to the application.

TBG 85 - 120 - 150 - 210 PN

- Ambidextrous hinged combustion head allowing an easy maintenance access without removing the burner from the boiler..
- Air capacity adjustment with linear opening controlled by electric servo motor.
- Automatic closure of the air damper during stand-by..
- Electrical panel that connects by 4 and 7 pole plugs/sockets provided.
- Electrical panel with protection rating of IP 55.
- Sliding boiler coupling flange to adapt to the head protrusion of the various types of boilers.
- Modulation ratio 1:3.

Design features

- Light die-cast aluminium ventilation unit.
- Air intake with butterfly gate for the regulation of the air combusting flow rate, with sound insulation and designed for optimal air damper opening linearity.
- Sliding boiler coupling flange to adapt the head protrusion to the various types of boilers.
- Adjustable blast-pipe with stainless steel nozzle and deflector disk in steel.
- Flame viewer.
- Air pressure switch to ensure the presence of combustion air.
- Gas train gas with safety valve and pneumatically activated proportional working, minimum pressure switch, pressure regulator and gas filter.
- Flame scanning by ionisation electrode.
- Built-in PCB into the control panel .
- Error proof connectors for gas train electrical supply.

- 7-pole outlet for burner electrical and thermostat connections, and 4-pole outlet for second stage control or for the connection of the capacity electronic regulator.
- Prepared for microamperometer connection with ionisation cable.
- Electrical protection rating IP44.

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- High performance centrifugal fan.
- Mono-phase electric motor to run fan for TBG 45, three-phase for TBG 60 (variable speed drive with V version)..
- Synoptic control panel with led of operation and block and burner off, operation and block indicator.
- Sequence controller - EN 298..

TBG 85 - 120 - 150 - 210 PN

- Centrifugal fan in light aluminum alloy.
- Three-phase light aluminum alloy electric motor. .
- Combustion air input with sound insulation and designed for optimal air damper opening linearity.
- Light die-cast aluminium alloy electrical panel.
- Control panel with display diagram for working mode with indication lights, start/stop switch, automatic/manual mode selector, minimum/maximum selector and enabled for installation of RWF40 regulator.
- Electronic sequence controller with diagnostic lamps - EN 298..

Technical Data - TBG 45 PN 50Hz:

Minimum Rated output	100	kW
Maximum Rated output	450	kW
Minimum gas flow rate	10.1	m3/h
Maximum gas flow rate	45	m3/h
Motor rated power	0.5	kW
Electric Power Supply Phase	1	N
Electric Power Supply Frequency 1	50	Hz
Electric Power Supply Current	AC	
Electric Power Supply Voltage	230	V
Width	550	mm
Depth	920	mm
Weight	32	kg
Pack Width	970	mm
Pack Height	480	mm
Package depth	570	mm
Weight of Packaging	40	kg